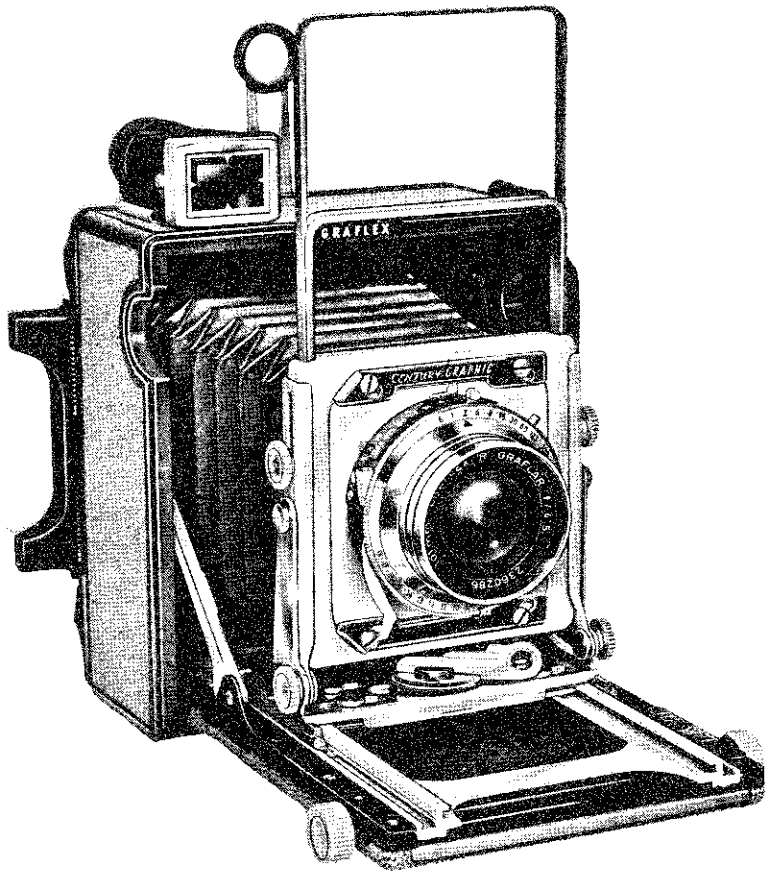
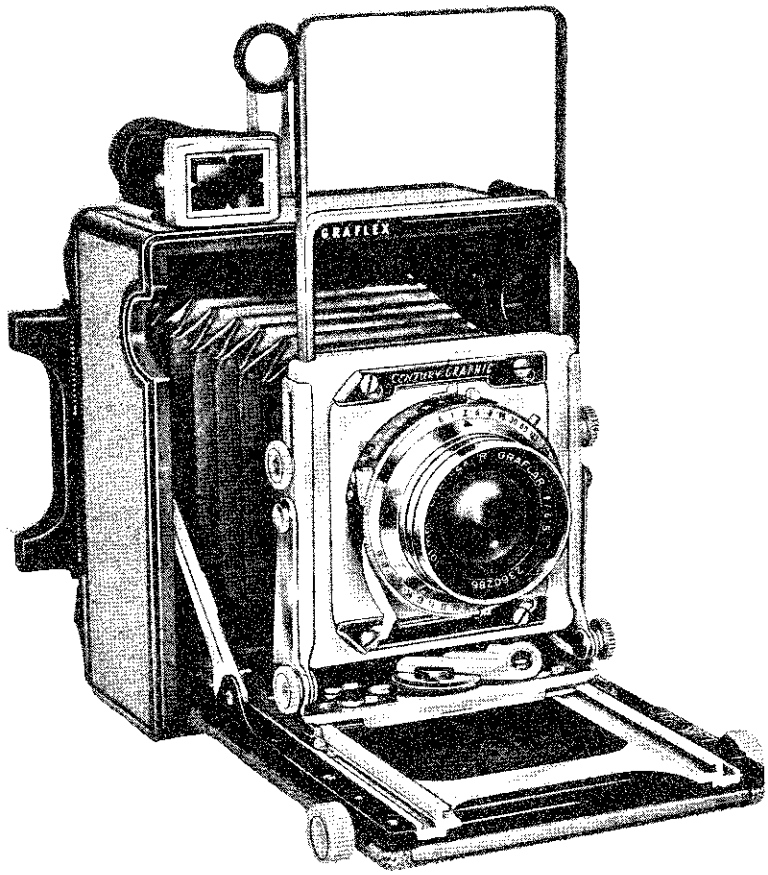


SERVICE INSTRUCTIONS AND PARTS LIST

CENTURY GRAPHIC®

CAMERA

SINGER
GRAFLEX DIVISION



SERVICE INSTRUCTIONS AND PARTS LIST

CENTURY GRAPHIC®

CAMERA

SINGER
GRAFLEX DIVISION

CENTURY GRAPHIC

TABLE OF CONTENTS

Paragraph		Page
	Introduction	1
A	Camera Complete Disassembly	1
B	Camera Complete Reassembly	2
C	Focusing Frame Complete - Disassembly	3
D	Focusing Frame Complete - Reassembly	3
E	Front Standard Complete - Disassembly	3
F	Front Standard - Cleaning and Inspection	3
G	Front Standard Complete - Reassembly	3
H	Bed Complete - Disassembly	4
J	Bed - Cleaning and Inspection	4
K	Bed Complete - Reassembly	4

ILLUSTRATED PARTS LISTS

Figure		
1	Camera Basic	6
	Camera Basic Parts List	7
2	Focusing Frame Complete	9
	Focusing Frame Complete Parts List	9
3	Front Standard Complete	10
	Front Standard Complete Parts List	11
4	Bed Complete	12
	Bed Complete Parts List	13

NOTES

INTRODUCTION

This section of the Graflex Service Manual covers the Service Instructions and Parts Catalog for the 2-1/4 x 3-1/4 Century Graphic Camera.

A. CAMERA COMPLETE DISASSEMBLY (Figure 1)

1. Remove the focusing hood assembly (1) by pressing outward on tabs of two retainers located on the focusing frame (2).

NOTE: The hood assembly is assembled with staked hinge pins. It should not be disassembled, but replaced as a unit so trouble free operation can be maintained.

2. Remove focusing frame (2) by simultaneously pressing downward on knurled finger pads and sliding frame to the right, free from two arm hooks. If disassembly of the focusing frame is necessary, refer to paragraph C.

3. Press down on tab of shoe (4) and slide viewfinder (3) from camera.

4. Remove the three self tapping screws (5) and shoe (4).

5. Remove the handle (6).

6. Remove the two handle brackets (7), each secured by handle bracket nut (8) and machine screw (9).

7. Remove front standard complete as follows.

a. Extend bellows on bed yoke.

b. Loosen two each machine screws (23 and 29) to within two threads.

c. Press inward on two machine screws (23) and simultaneously slide rear top portion of bellows downward and free from upper bellows retaining plate (22).

d. Press inward on two machine screws (29) and simultaneously slide rear bottom portion of bellows upward and free from lower bellows retaining plate (28).

e. Slide front standard complete (10) from bed yoke.

f. If disassembly of front standard complete is necessary, refer to paragraph E.

8. Remove two set screws (11) from each case guide.

9. Remove bed complete (12) by removing four machine screws (13), two self-tapping screws (14) and disengaging bed braces from slots of bed brace plates (15) and (16). If disassembly of bed complete is necessary, refer to paragraph H.

10. Remove left and right bed brace plates (15 and 16), each secured by three machine screws (17).

11. Remove two machine screws (23), two washers (18), slide lock spring (19), upper slide lock (20), two washers (21) and upper bellows retaining plate (22).

12. Remove two machine screws (29), two washers (24), slide lock spring (25), lower slide lock (26), two washers (27) and lower bellows retaining plate (28).

13. Remove self-tapping screw (33), peepsight cap (30), peepsight assembly (31) and washer (32).

14. If necessary, remove the following:

a. Peepsight spring plate (34) and peepsight spring (35).

NOTE: This operation should not be performed unless the peepsight assembly (31) does not stand erect.

b. Two cemented light seals (36).

NOTE: If a light seal is removed, a new seal should be used in reassembly.

c. Cemented top covering (37), latch button (38), machine nut (40), machine screw (41) and bed latch spring (39).

d. Cemented right covering (42) and three machine nuts (43).

e. Cemented left covering (44) and five machine nuts (45).

f. Cemented bottom covering (46) and four machine nuts (47).

g. Upper and lower hooks (48 and 49), each secured to body assembly (52) by one rivet plate (50) and two rivets (51).

B. CAMERA COMPLETE REASSEMBLY (Figure 1)

1. If the following have been removed, proceed as follows:

a. Place the lower or upper hook (48 or 49) over respective mounting holes in body assembly (52), assemble two rivets (51), mounting plate (50) and rivet over tight.

b. Insert four machine nuts (47) into four square recessed holes in bottom side of body assembly. Clean area to be covered with solvent (toluol or equal) and recement bottom covering (46) in place, using 3M EC880 adhesive.

c. Insert five machine nuts (45) into five square recessed holes in left side of body assembly. Clean area to be covered with solvent (toluol or equal) and recement left covering (44) in place, using 3M EC880 adhesive.

d. Insert three machine nuts (43) into three square recessed holes in right side of body assembly. Clean area to be covered with solvent (toluol or equal) and recement right covering (42) in place, using 3M EC880 adhesive.

e. Assemble bed latch spring (39) and secure with machine screw (41) and machine nut (40). Insert latch button (38) in place. Clean area to be covered with solvent (toluol or equal) and recement top covering (37) in place, using 3M EC880 adhesive.

f. Use solvent (toluol or equal) to clean the groove from which a light seal strip (36) has been removed, reactivate cemented surface of replacement light seal strip, locate strip visually in center of groove and press firmly in place.

g. Position peepsight spring (35) in cavity with open end of spring facing toward the bottom. Position peepsight spring plate (34) in cavity with concave side of plate toward the spring. Flatten plate and stake at several points along the edge.

NOTE: Apply small amount of #107 Lubriplate to top surface of peepsight spring before assembly.

2. Position peepsight washer (32), peepsight assembly (31), peepsight cap (30), and secure with self-tapping screw (33).

3. Position lower bellows retaining plate (28), two flat washers (27), lower slide lock (26), two slide lock springs (25), two washers (24) and secure with two machine screws (29).

4. Position upper bellows retaining plate (22), two flat washers (21), upper slide lock (20), two slide lock springs (19), two washers (18) and secure with two machine screws (23).

5. Apply 3M EC-784 adhesive to rear surfaces of right and left bed brace plates (15 and 16) and secure each plate with three machine screws (17).

6. Engage the bed braces of bed complete (12) in slots of right and left bed brace plates (15 and 16) and secure bed complete to body assembly with two self-tapping screws (14) and four machine screws (13).

NOTE: On original fitting of bed complete to body assembly, the bed was aligned with the film plane by adjusting the bed brace eccentrics and staking eccentrics to maintain this alignment. When refitting the bed, it may be necessary to readjust and restake eccentrics.

7. Assemble two set screws (11) in first and third threaded holes of each case guide.

8. Raise or lower case guides to allow case section of the yoke assembly to travel from case guides to the bed guides without interference. Raise or lower a case guide by loosening outer machine screw (13) and turning outer set screw (11) clockwise to raise or counterclockwise to lower. After proper adjustment has been made, tighten outer machine screw (13).

9. Assemble standard complete (10) as follows:

a. Slide standard complete on bed yoke.

b. Loosen two machine screws (29) and two machine screws (27) to within two threads.

c. Press inward on two screws (29) and simultaneously slide rear bottom portion of bellows downward and locate behind lower bellows retaining plate (28).

d. Press inward on two screws (23) and simultaneously slide rear top portion of bellows upward and locate behind upper bellows retaining plate (22). Tighten machine screws (23 and 29).

e. Check front standard for smooth travel on bed yoke. Adjust if necessary.

f. Check front standard for squareness on bed and parallelism with the film plane.

10. Assemble two handle brackets (7) and secure each with one machine screw (9) and handle bracket nut (8).

11. Assemble handle complete (6).

12. Position shoe (4) on top of body assembly and secure in place with three screws (5).

13. Slide viewfinder (3) into position on shoe (4).

14. Assemble focusing frame into position on camera assembly securing focusing frame arms under hooks (48 and 49).

15. Assemble focusing hood (1) into position and press into two retainers on focusing frame (2).

C. FOCUSING FRAME COMPLETE - DISASSEMBLY (Figure 2)

1. Remove four machine screws (2) securing two retainers (1).

2. Remove ground glass focusing screen (3).

WARNING: When performing the next operation, hold frame away from the face.

3. Pry arm assembly (4 or 8) from its respective bearing hole, ease terminal of spring (6 or 9) from its associated arm tab, and remove washer (7 or 10) from arm shaft.

4. If necessary, remove one pin (11) from two sides of focusing frame (12).

5. Inspect arm assemblies for deformity or damage. If necessary, replace.

6. Wash ground glass focusing screen with soap and water. Rinse thoroughly and dry.

D. FOCUSING FRAME COMPLETE - REASSEMBLY (Figure 2)

1. If removed, assemble two pins (11).

2. To simplify the following step fabricate a special spring tool by drilling 0.086 (No. 52 drill) diameter hole in end of 3/16 inch diameter rod that is about 6 inches long.

WARNING: When performing next operation, hold frame away from the face.

3. To reassemble arms and springs, first place one washer (10 or 7) over arm shaft. Spring (9) actuates the lower arm (8) and spring (6) actuates the upper arm (5).

4. Place one spring in cavity of focusing frame, with straight end toward the inside and against the outer wall of cavity. Slip the fabricated special spring tool over formed end of spring and wind terminal 1/2 turn and hold. Insert arm, with washer attached, through outer hole of frame, through spring and into inner bearing hole. Release the spring terminal so it bears on arm tab.

5. Assemble ground glass focusing screen (3).

6. Assemble two retainers (1) and secure each with two machine screws (2).

E. FRONT STANDARD COMPLETE - DISASSEMBLY (Figure 3)

1. Remove two knobs (1) and two flat washers (2).

NOTE: Ends of studs are staked.

2. Spread supports of standard support assembly (23) and remove bellows and frame assembly. Remove lensboard locks (3 and 4) and bellows assembly (10) by removing four each of the following: machine screws (5), spring washers (6), flat washers (7), flat washers (8) used as required, and machine nuts (9).

3. Remove inner frame (11), two finder springs (12), finder complete (13), and two front frame clamp plate assemblies (14) from outer frame (15).

4. From standard support assembly (23) remove shift locking spring (17) secured by machine nut (18).

5. Unscrew lock lever assembly (19) and remove two steel balls (20), flat washer (21) and spring washer (22).

6. If necessary, remove two each of the following: clamp knobs (24), flat washers (25), support locking screws (26) and flat washers (27).

F. FRONT STANDARD - CLEANING AND INSPECTION.

1. Wipe outside of the bellows with a damp cloth. Scrub inside surfaces with a stiff brush (old toothbrush) and blow out all loose dirt and grit.

2. Stretch bellows to its full extension and inspect for pin holes by inserting an electric light bulb inside, being careful not to burn the inside fabric.

3. Clean sliding area of finder assembly, finder frame and front frame clamp assemblies in solvent (Trichlorethylene) and dry thoroughly.

4. Inspect finder assembly and finder frame for bends. If bent, replace.

G. FRONT STANDARD COMPLETE - REASSEMBLY (Figure 3)

1. If removed, assemble two each of the following: flat washers (27), support locking screws (26), flat washers (25) and clamp knobs (24). Stake first thread of each stud.

2. Place spring washer (22) and flat washer (21) on threaded shank of lock lever assembly (19). Position two steel balls (20) and assemble lever assembly.

3. Position shift locking spring (17) and secure with machine nut (18).

4. To the outer frame (15), assemble two front frame clamp plate assemblies (14), finder complete (13) and two finder springs (12).

NOTE: Before assembly, apply #107 Lubriplate to flat surfaces of each front frame clamp plate assembly, sliding surfaces of finder assembly and finder frame.

5. Assemble inner frame (11).

6. Assemble bellows assembly (10), lensboard locks (4 and 3) using four each of the following: machine nuts (9), flat washers (8) used as required, flat washers (7), spring washers (6) and machine screws (5).

7. Spread supports of standard support assembly (23) and assemble above assembly into support channels with threaded studs of front frame clamp plate assemblies extending through the vertical slot of each support.

8. Assemble two flat washers (2) and two clamp knobs (1). Stake first thread of each stud.

9. Check locking action of front standard on bed yoke. The lock lever should clamp tight enough to prevent slippage when lens is installed. To adjust tension, remove front standard and loosen machine nut (18). Turn screw portion of lock lever clockwise to loosen tension and counterclockwise to tighten. After adjustment, tighten machine nut (18).

H. BED COMPLETE - DISASSEMBLY (Figure 4)

1. Rack yoke assembly (5) forward until case section yoke disengages grooves of case guides (14 and 15). Tip hinge section of bed downward and slide yoke assembly backward and out of grooves of bed guides (2 and 3).

2. Remove set screw (1).

3. Remove left and right bed guides (2 and 3) by removing eight machine screws (4).

4. Remove brake plate (6) and focusing pinion assembly (7).

5. Remove left and right bed blocks (8 and 9), and two each of the following: bed brace springs (10), bed brace plungers (11), and focusing pinion springs (12).

6. If necessary, remove bed escutcheon (13).

7. Do not remove doweled left and right case guides (14 and 15) unless a guide has been damaged and requires replacement.

8. Remove pin (17), spring (18), and slide (19) from bed assembly (20).

J. BED - CLEANING AND INSPECTION

1. Clean bed, bed blocks and bed guides with cloth moistened in solvent (Trichlorethylene or equal). Wash all other metal parts in above solvent and dry thoroughly.

2. If necessary, recement loose covering using 3M EC-847 adhesive.

3. Check top surface of bed blocks to be sure they are absolutely flat. Check bed section guides for straightness. Check yoke assembly for flatness in all directions.

K. BED COMPLETE - REASSEMBLY (Figure 4)

1. To bed assembly (20), assemble slide (19), spring (18), and pin (17).

NOTE: Apply #107 Lubriplate to sliding surfaces of slide.

2. If replacement case guide (15 or 14) is being fitted to the bed hinge, it will be necessary to ream two dowel pin holes in case guide to 0.0810 + 0.0005 - 0.0000. Relocate case guide on bed hinge and secure with two dowel pins (16).

NOTE: Apply #107 Lubriplate to grooves of case guides.

3. If removed, assemble bed escutcheon (13).

4. Place in position on right side of bed one each of the following: focusing pinion spring (12), plunger (11), bed brace spring (10) and right bed block (9). Repeat same procedure on left side and assemble left bed block (8).

NOTE: Before assembling bed blocks apply #107 Lubriplate to area where plunger (11) and spring (10) will locate.

5. Position pinion assembly (7) on bed with four yoke lock brakes close together and resting on focusing pinion spring (12).

NOTE: Apply #107 Lubriplate to helical gear teeth of focusing pinion.

6. Assemble right and left bed guides (3 and 2) and assemble eight machine screws (4). Do not tighten machine screws. Insert set screw (1).

NOTE: Apply #107 Lubriplate to grooves of bed guides.

7. Tip hinge section of bed downward and slide yoke assembly (5) forward into grooves of bed guides (2 and 3) with bottom teeth of yoke engaging helical gear teeth on focusing pinion (7). Rack yoke assembly (5) backward until case section of yoke is partially engaged in grooves of case guides (14 and 15). Draw bed guides (3 and 2) together evenly with fingers and tighten eight machine screws (4).

NOTE: Apply #107 Lubriplate to sides and bottom teeth of yoke assembly.

8. Check forward and backward travel of yoke assembly. The travel should be smooth without binding or jumping. The side tension should be enough so yoke will not slide by itself when bed is held in a vertical position. If necessary, readjust bed guides (3 and 2). Increase or decrease tension on yoke by tightening or loosening set screw (1).

PARTS LIST

The Group Assembly Parts Lists are listed in disassembly order. The list divides the components into major assemblies, their subassemblies and parts. By the use of indented columns, the relationship of the assemblies to the subassemblies and parts is obtained.

The column titled "Figure and Index No." contains the index number in disassembly order of the items illustrated. Do not use the figure or index number in correspondence--specify the catalog or part number and name. Finish should also be included where specified.

The column titled "nomenclature" (including numbered columns) lists item nomenclature on the Graflex drawing. The assembly in the column marked "3" will be a component of the first assembly which preceded it in the column marked "2" etc. The code "NP" will indicate that this part is "not procurable" and that the "next higher assembly" (NHA) should be ordered. The code "AR" is used for bulk items when an indefinite amount may or may not be used "as required. The code "LP" is used when an item may be "locally purchased."

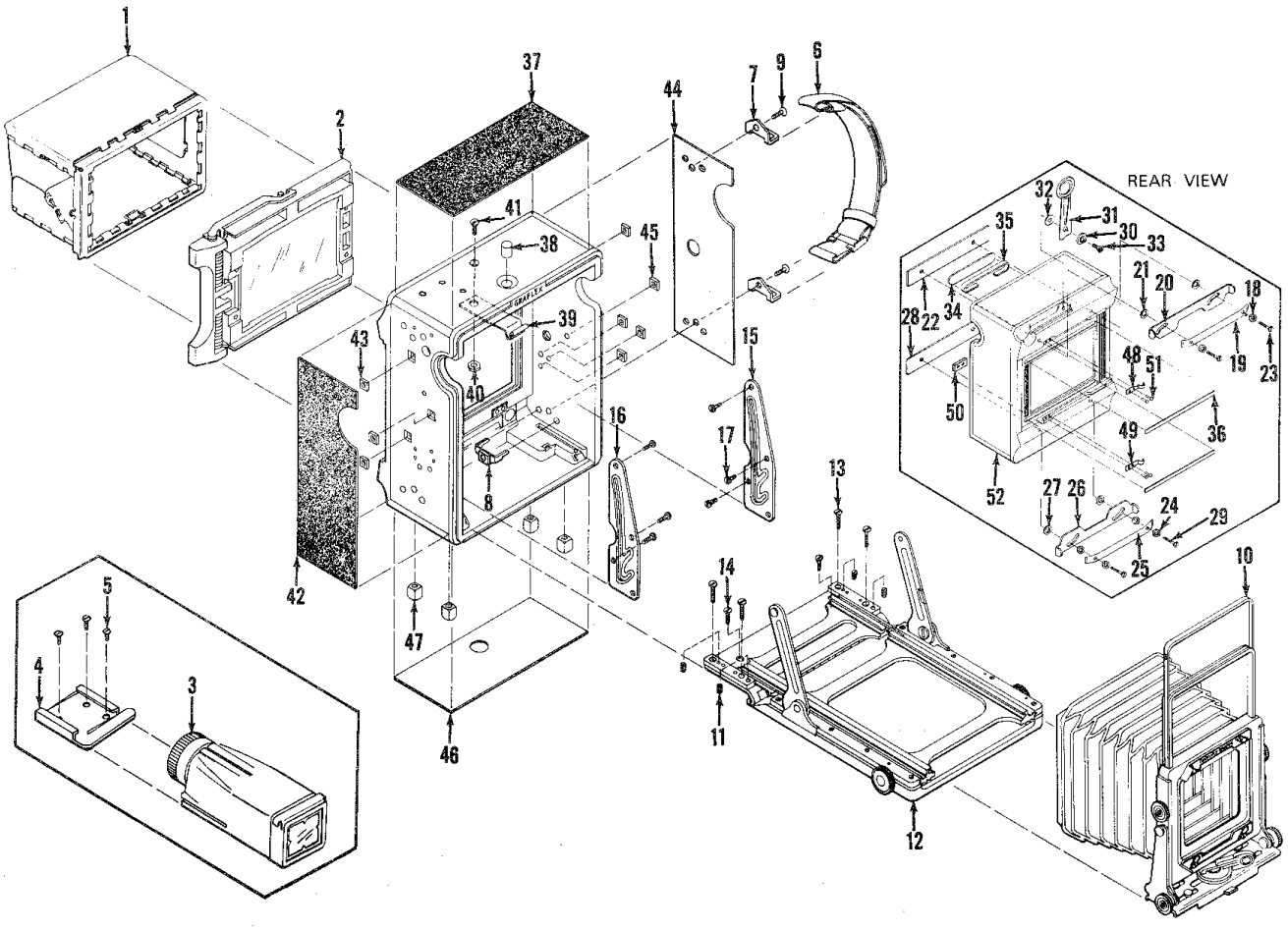


Figure 1. CAMERA BASIC

Figure and Index No.	Part Number	1 2 3 4 5 Nomenclature	Product Number	Qty.
1-	31725G5	Camera Complete		Ref.
-1	31059G1	. Hood Assembly - Focusing	9145	1
-2	31715G1	. Frame Complete - Focusing (Fig. 3)	9278	1
-3	30700G1	. Viewfinder (See Section 102)	9132	1
-4	30594P1	. Shoe		1
	Attaching Parts			
-5	30921P20C	. Screw - Self-tapping, 1/4 in. lg. #2 Shakeproof, Type 25, Flat Head, Slotted, C.P.		3
	---***---			
-6	36006P1	. Handle		1
-7	30376P1	. Bracket - Handle		2
	Attaching Parts			
-8	30375P1	. Nut - Handle Bracket		2
-9	104B6R8C	. Screw - Machine 1/2 in. lg. #6-32 oval head, Phillips Drive, Brass, C.P.		2
	---***---			
-10	34619G8	. Standard Complete - Front (Fig. 4)		1
-11	170D5-2L	. Screw - Set 1/8 in. lg., #5-40, Slotted Headless, Steel, Flat-point, Black Oxide		4
-12	30621G3	. Bed Complete (Fig. 5)		1
	Attaching Parts			
-13	106-3-8L	. Screw - Machine, 1/2 in. lg., #3-48, Oval Fillister Head, Slotted, Steel Black Oxide		4
-14	30921P17L	. Screw, Self-tapping, 3/8 in. lg., #3 Shakeproof Type 25, Flat Head, Slotted, Steel, Black Oxide		2
	---***---			
-15	31750P3	. Plate - Bed Brace, Left		1
-16	31750P4	. Plate - Bed Brace, Right		1
	Attaching Part			
-17	110-3R4K	. Screw - Machine, 1/4 in. lg., #3-48, Straight Side, Binding Head, Phillips Drive, Steel, Black Oxide		6
	---***---			
-18	33500-8K	. Washer - Flat, 0.250 in. O.D. x 0.129 in. I.D. x 0.062 in. thk. Blk. Fiber		2
-19	31714P1	. Spring - Slide lock - Upper (same as index 25)		1
-20	31713P2	. Slide lock - Upper		1
-21	30473P42K	. Washer flat, 0.250 in. O.D. x 0.099 in. I.D. x 0.025 in. thick Brass, Black Oxide		2
-22	31743P2	. Plate - Bellows Retaining Upper		1
	Attaching Part			
-23	31752	. Screw - Machine - Special (same as Index 29)		2
	---***---			
-24	33500-8K	. Washer Flat (same as Index 18)		2
-25	31714P1	. Spring - Slide Lock (same as Index 19)		1
-26	31713P1	. Slide Lock Lower		1
-27	30473P42K	. Washer Flat (same as Index 21)		2
-28	31743P1	. Plate - Bellows Retaining Lower		1
	Attaching Part			
-29	31752	. Screw Machine (same as Index 23)		2
	---***---			
-30	30366	. Cap-Peepsight		1
-31	30369G1	. Peepsight Assembly		1
-32	30368	. Washer - Peepsight		1
	Attaching Part			
-33	30921P18C	. Screw - Self-tapping, 5/16 in. lg. #6 Shakeproof, Type 25, Oval Head, Phillips, Steel, Chrome Plate		1
	---***---			
-34	30394P1	. Plate - Peepsight Spring		1
-35	30367	. Spring - Peepsight		1
-36	31722P1	. Strip - Light Seal		2
-37	31734P9	. Covering - Top		1
-38	31733	. Button Latch		1
-39	31729P1	. Spring - Bed Latch		1

Figure and Index No.	Part Number	1 2 3 4 5	Nomenclature	Product Number	Qty.
	Attaching Parts				
-40	200-4HK	.	Nut - Machine, #4 Hex., Steel, Black Oxide		1
-41	100-4-5K	.	Screw Machine, 5/16 in. lg. #4-40, Flat Head, Slotted, Steel, Black Oxide		1
	---***---				
-42	31734P8	.	Covering - Right		1
-43	31739	.	Nut, Machine (Special) (Same as Index 45)		3
-44	31734P7	.	Covering - Left		1
-45	31739	.	Nut, Machine (Special) (Same as Index 43)		5
-46	31734P6	.	Covering Bottom		1
-47	31737	.	Nut - Machine Special		4
-48	31712P1	.	Hook - Upper		1
-49	31712P2	.	Hook - Lower		1
	Attaching Parts				
-50	31728	.	Plate - Rivet		2
-51	30556P15K	.	Rivet - Solid		4
	---***---				
-52	31726G1	.	Body Assembly		1

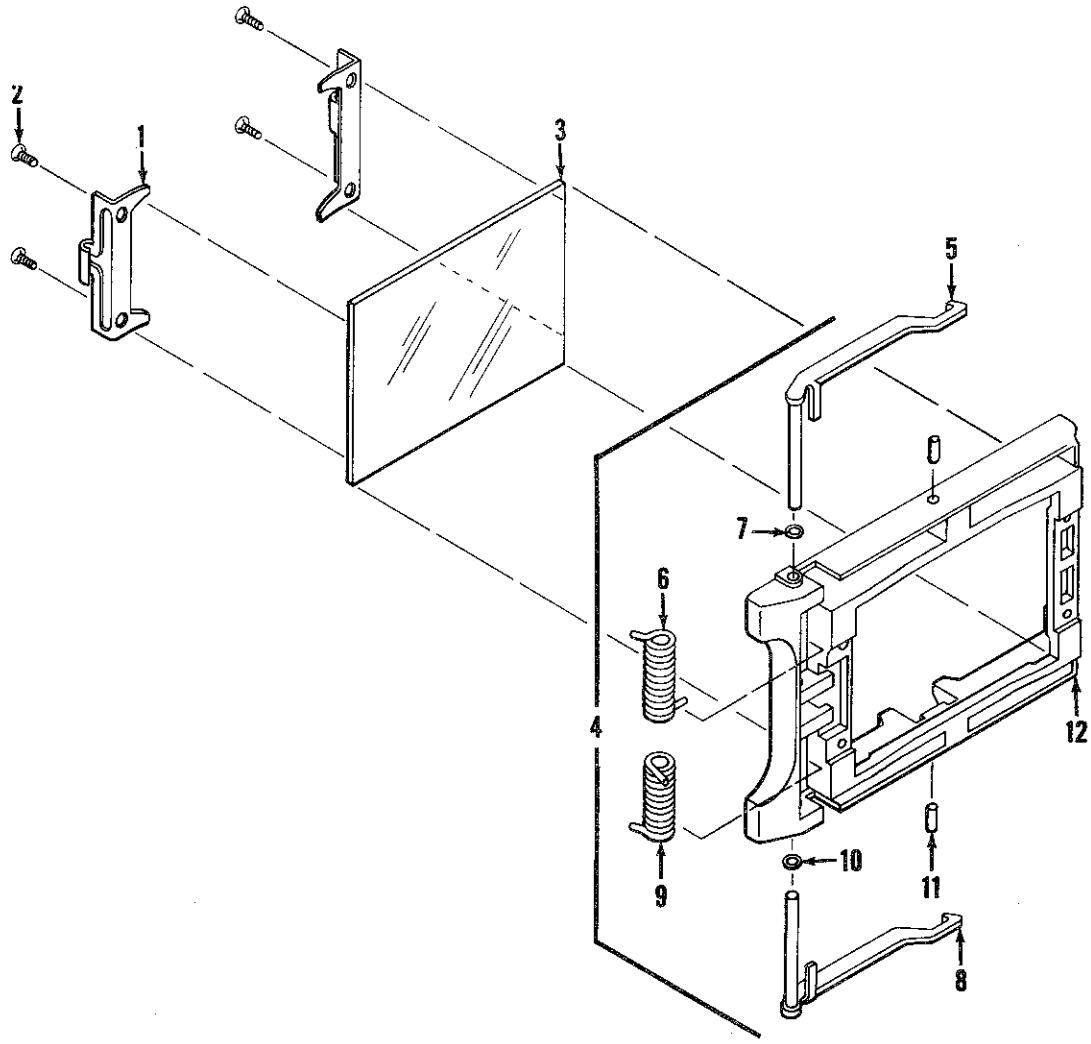


Figure 2. FOCUSING FRAME COMPLETE

Figure and Index No.	Part Number	1 2 3 4 5 Nomenclature	Qty.
2-	31715G1 Cat. 9278	FRAME COMPLETE - FOCUSING.	Ref.
-1	30371P1	. Retainer	2
	Attaching Part		
-2	100-2-3 ---***---	. Screw - Machine, 3/16 in. lg., #2-56, Flat Head, Slotted, Steel, Black Oxide	4
-3	30414P2	. Screen - Focusing	1
-4	33837G1	. Frame Assembly - Focusing.	1
-5	31717G2	. . Arm Assembly - Upper	1
-6	31720P1	. . Spring - Upper	1
-7	30473P38	. . Washer - Flat, 0.250 in. OD x 0.157 in. ID x 0.010 in. thick, Brass, Ebonol (Same as Index 10)	1
-8	31717G1	. . Arm Assembly - Lower	1
-9	31720P2	. . Spring - Lower	1
-10	30473P38	. . Washer - Flat (Same as Index 7)	1
-11	183-4-6	. . Pin - Groov, 3/32 in. dia., steel, Groov-Pin Corp., Type 4, 3/8 in. lg. Black Oxide & Clear Lacq.	2
-12	31716P1	. . Frame - Focusing	1

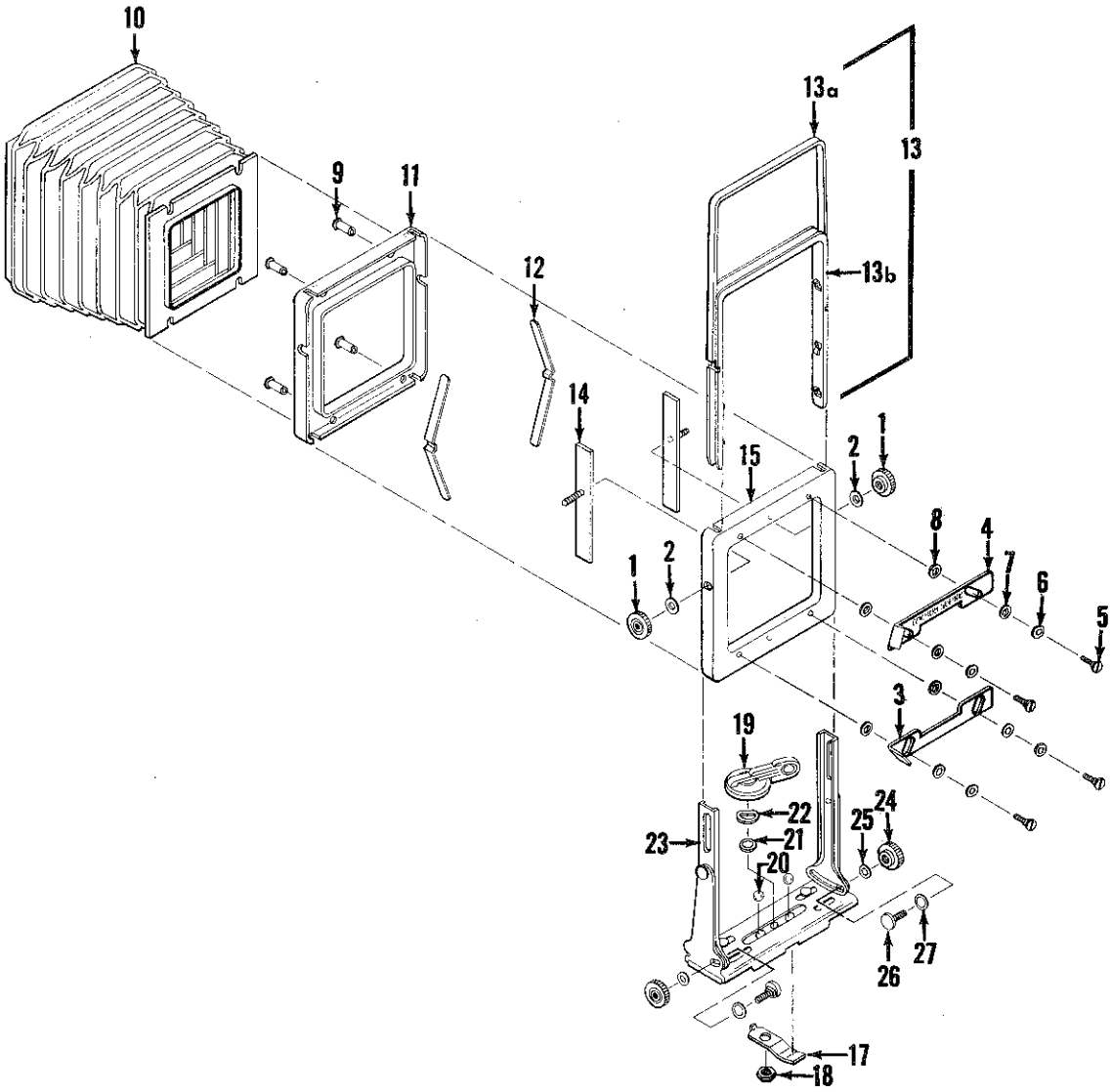


Figure 3. FRONT STANDARD COMPLETE

Figure and Index No.	Part Number	1 2 3 4 5 Nomenclature	Qty.
3-	34619G8	STANDARD COMPLETE - FRONT	Ref.
-1	30444P1	. Knob - Clamp	2
-2	30473P6	. Washer - Flat, 0.312 in. OD x 0.128 in. ID x 0.015 in. thick, Fiber	2
	No number	. Bellows and Frame Assembly	1
-3	30472P5	. . Lock - Lensboard, Lower	1
-4	30472P7	. . Lock - Lensboard, Upper	1
	Attaching Parts		
-5	30401P1	. . Screw - Machine (special)	4
-6	30540P3	. . Washer - Spring, 0.203 in. OD x 0.124 in. ID x 0.007 in. thick, 3/16 in. radius, Spring Steel	4
-7	30473P20	. . Washer - Flat, 0.203 in. OD x 0.124 in. ID x 0.010 in. thick, Stainless Steel	4
-8	30473P2	. . Washer - Flat, 0.218 in. OD x 0.089 in. ID x 0.016 in. thick, Stainless Steel	AR
	30473P65	. . Washer - Flat, 0.218 in. OD x 0.089 in. ID x 0.010 in. thick, Stainless Steel	AR
-9	30377P2	. . Nut - Machine (special)	4
	---***---		
-10	31740G1	. . Bellows Assembly	1
-11	30387P1	. . Frame - Inner	1
-12	31746P1	. . Spring - Finder	2
-13	31923G4	. . Finder Complete	1
-13a	30400G2	. . . Finder Assembly	1
-13b	31738P1	. . . Frame - Finder	1
-14	30425G1	. . Plate Assembly - Front Frame Clamp	2
-15	30385P1	. . Frame - Outer	1
-16	30538G5S	. Standard Support Assembly Complete	1
-17	30349	. . Spring - Shift Locking	1
	Attaching Part		
-18	30553P2	. . Nut - Machine	1
	---***---		
-19	30537G2	. . Lever Assembly - Lock	1
-20	300-9	. . Ball - Steel 0.250 dia	2
-21	30473P13A	. . Washer - Flat, 0.350 in. OD x 0.250 in. ID x 0.210 in. thick, Brass Cadmium Plate	1
-22	30540P2	. . Washer - Spring, 0.406 in. OD x 0.203 ID x 0.007 in. thick, 5/16 radius, Steel	1
-23	34621G4	. . Standard Assembly - Front	1
-24	30444P1	. . . Knob - Clamp	2
-25	30473P7	. . . Washer - Flat, 0.312 in. OD x 0.128 in. ID x 0.012 in. thick, Fiber	2
-26	31735	. . . Screw - Support Locking	2
-27	30473P10	. . . Washer - Flat, 0.375 in. OD x 0.187 in. ID x 0.008 in. thick, Armite Paper	2
	30687	. . . Rivet - Support	NP NHA
	30473P14	. . . Washer - Flat	NP NHA
	30428P1	. . . Support - Front Frame	NP NHA
	30546	. . . Rivet - Lock Plate	NP NHA
	30473P16	. . . Washer - Flat	NP NHA
	30423	. . . Plate - Lock	NP NHA
	30547P2	. . . Spring - Spacer	NP NHA
	30418P1	. . . Plate - Guide	NP NHA
	31273P1	. . . Standard - Front	NP NHA

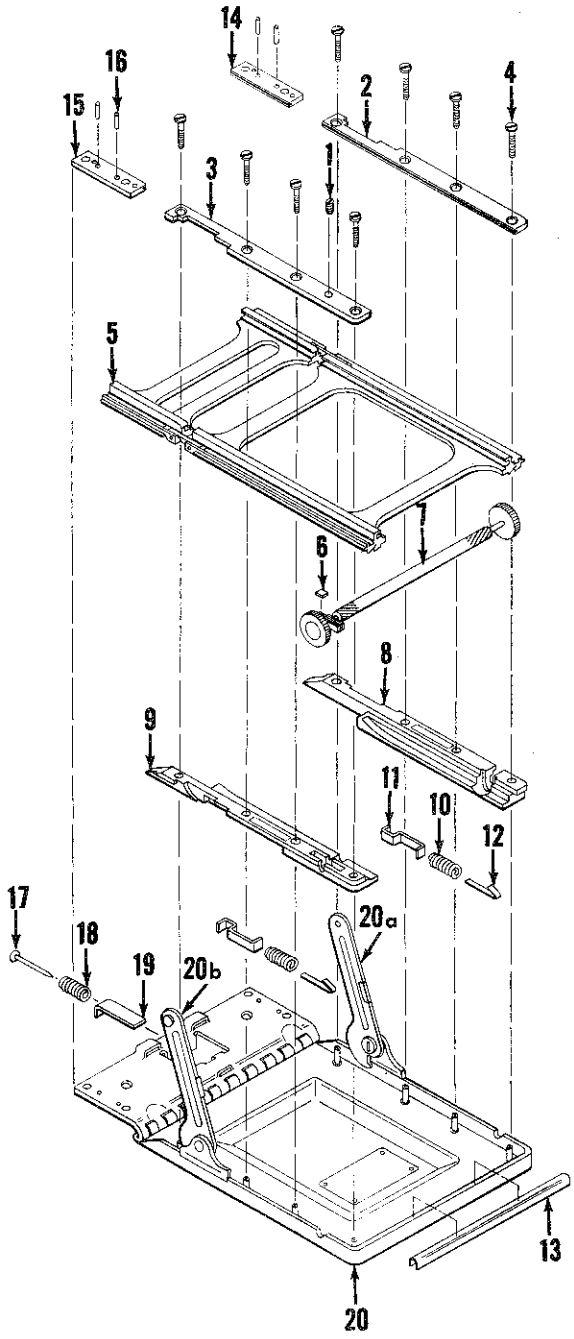


Figure 4. BED COMPLETE

Figure and Index No.	Part Number	1 2 3 4 5 Nomenclature	Qty.
4-	30621G3	BED COMPLETE	Ref.
-1	170A3-2A	. Screw - Set, 1/8 in. lg., #3-48, Headless, Slotted, Oval Point, Steel Cadmium Plate	1
-2	30627P1	. Guide - Bed, Left	1
-3	30627P2	. Guide - Bed, Right	1
	Attaching Part		
-4	31089P6	. Screw - Machine (special)	8
	---***---		
-5	30596G4	. Yoke Assembly	1
	30599P2	. . Yoke - Bed Section	NP NHA
	30601P2	. . Yoke - Case Section	NP NHA
	30602	. . Link - Yoke	2
	30603	. . Pin - Link	4
	30605	. . Pin - Front Standard Stop	1
-6	30829	. Plate - Brake	1
-7	30621G1M	. Pinion Assembly - Focusing	1
-8	30622P1	. Block - Bed, Left	1
-9	30622P2	. Block - Bed, Right	1
-10	30666	. Spring - Bed Brace	2
-11	30615	. Plunger - Bed Brace	2
-12	30611	. Spring - Focusing Pinion	2
-13	31730P1	. Escutcheon - Bed	1
-14	31731P1	. Guide - Case, Left (see note)	1
-15	31731P2	. Guide - Case, Right (see note)	1
	Attaching Part		
-16	30685P2	. Pin - Dowel	4
	---***---		
-17	30638P1	. Pin - Slide	1
-18	30639	. Spring - Bed Throw-Out	1
-19	30637	. Slide - Bed Throw-Out	1
-20	34615G6	. Bed Assembly - Second	1
-20a	30421G5	. . Brace Assembly - Left	1
-20b	30421G6	. . Brace Assembly - Right	1
	Attaching Part		
	31751P1	. . Rivet - Bed Brace Assembly	2
	---***---		
	31754P3	. . Covering - Bed	1
	33903P1	. . Plate - Name (not available for replacement)	Ref.
	Attaching Part		
	30363P22H	. . Rivet - Hollow (Nickel Plate)	4
	---***---		
	30915P1	. . Bushing - Guide Screw	8
	30172P23	. . Pin - Hinge	1
	30435P1	. . Hinge - Bed (see note)	NP NHA
	30589P2	. . Bed	NP NHA

NOTE: To facilitate repairs requiring replacement case guides or bed hinge, the following assembly with case guides doweled to bed hinge is recommended:

30621G1R	Hinge Assembly	1